JANUARY 1944

[Communicated by Capt. J. F. Hellweg, U. S. N. (Ret.), Superintendent, U. S. Naval Observatory.] All measurements and spot counts were made at the Naval Observatory from plates taken at the observatories indicated. Difference in longitude is measured from the central meridian, positive toward the west. Latitude is sositive toward the north. Areas are corrected for foreshortening and expressed in millionths of Sun's hemisphere. For each day, under longitude, latitude, area of spot or group, and spot count, are included assumed longitude of center of the disk, assumed latitude of center of the disk, total area of spots and groups and total spot count.]

	East- ern stand- ard time		Mount Wilson group No.	Heliographic							
Date				Dif- fer- ence in longi- tude	Lon- gi- tude	Lati- tude	Dis- tance from cen- ter of disk	Area of spot or group	Spot count	Plate qual- ity	Observatory
1944	h	m			•	-	•				
Jan. 1	10	31	-		No s	pots				G,	U. S. Naval.
2	12	56			Nos	pots			-	P	Do.
3	11	16			Nos	pots		-		G	Mt. Wilson.
4	10	57			Nos	pots		- -		F	U. S. Naval.
5	10	56			Nos	pots			 -	F	Mt. Wilson.
6	11	21			Nos	pots				G	U. S. Naval.
7	10	16			Nos	pots				F	Do.
8	11	23	 		Nos	pots				P	Do.
9	11	26			Nos	pots				F	Do.
10	10	25			Nos	pots				va	Do.
11	10	52			Nos	pots				F	Do.
12	11	27			Nos	pots				F	Do.
13	11	22	 		Nos	pots				F	Do.
14	10	49	 		No spots					G.	Mt. Wilson.
15	10	58			No spots					F	Do.
16	11	11			No spots		 	 - -		F	Do.
17	10	57			Nos	pots				G	U. S. Naval.
18	10	49	7633	+23	127	-22	28	16	3	G	Mt. Wilson.
	İ				(104)	(-5)		16	3		
19	11	47			Nos	 spots			 	F	Do.
20	12	41			Nos	pots	 -			F	U. S. Naval.
21	111	5			No spots				 	G	Mt. Wilson.
22	10	59	7634	-79	332	+11	79	145	1	F	U. S. Naval.
					(51)	(-5)		145	1		
23	12	27	7634	-64	333	+11	66	145	1	G	Do.
					(37)	(-5)		145	1	_	_
24	10	23	7634	51	334	+11	53	121	1	G G	Do.
					(25)	(-5)		121	1		_
25	11	18	7634	-38	333	+11	41	97		F	Do.
	1				(11)	(-5)		97	1	_	_
26	10	37	7634	25	333	+10	30	73	1	F	Do.
	l l		i	l	(358)	(-6)	l	73	. 1	1	t

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR JANUARY 1944-Continued

East- ern stand- ard time		Mount Wilson group No.	Heliographic							
			Dif- fer- ence in longi- tude	Lon- gi- tude	Lati- tude	Distance from center of disk	Area of spot or group	Spot count	Plate qual- ity	Observatory
h 10	m 49	7634	• -11	334	+10	19	97	9	G	U. S. Naval
				(345)	(-6)		97	9		
10	36	7634	+3	335	+10	16	73	2	F	Do.
				(332)	(-6)		73	2		
11	22	7634	+16	334	+10	22	48	4	G	Do.
		Ì		(318)	(-6)		48	4		
10	34	7634	+29	335	+10	33	36	1	F	Do.
				(306)	(-6)		36	1		
10	18	7634	+42	335	+10	46	16	1	F	Do.
				(293)	(-6)		16	1		
	erstan ar tim h 10	ern stand- stand- ard time h m 10 49 10 36 11 22	ern Wilson stand- ard time No. 1	Eastern Wilson group ard time No. Differ on longitude h m 7634 -11 10 36 7634 +3 11 22 7634 +16 10 34 7634 +29	Eastern Wilson proup ard time No. Difference in longitude h m 7634 +13 335 10 36 7634 +16 334 10 34 7634 +29 335 10 18 7634 +42 336	Eastern Wilson ard time No. Difference in longitude lude lude lude lude lude lude lude l	Eastern Wilson ard time No. Difference in longitude Latifrom tude long tude	Eastern Wilson ard time No. Differ fers and time No. Differ fers in long it tude like in the long in tude like in tude lik	East- ern stand- ard time Mount Wilson group ard time No. Dif- ler- ler- longi- longi- tude Lati- from cen- tend disk Area of stance of stanc	East- ern stand- ard time Mount Wilson group ard time No. Dif- ler- ler- longi- longi- tude Lati- from cen- tude Lati- from cen- tude Lati- from cen- tude 10 36 7634 +3 334 +10 19 332 (-6) 73 2 11 22 7634 +16 334 +10 22 48 4 10 34 7634 +29 335 +10 33 36 1 10 18 7634 +42 335 +10 46 16 1 Felate Spot spot count cen- tude 10 37 9 73 2 73 2 73 2 74 48 4 75 4 75 4 75 75 75 75 75 75 75 75

Mean daily area for 31 days=28 VG=very good; G=good; F=fair; P=Poor.

PROVISIONAL RELATIVE SUNSPOT NUMBERS FOR **DECEMBER 1943**

[Based on observations at Zurich except as indicated by an asterisk. Data furnished through the courtesy of Prof. W. Brunner, Swiss Federal Observatory, Zurich, Switzerland]

December 1943	Relative numbers	December 1943	Relative numbers	December 1943	Relative numbers
1 2 3 4	22 *22 a18 *18 *d14	11 12 13 14 15	*14 *a12 *d11 *28 *32	21 22 23 24 25	27 22 22 *18 12
6 7 8	*22 *14 19	16 17 18 19	*32 *32 *b49	26 27 28 29 30	*0 0 0 *0 *0
10	*24	20	41	31	0

Mean, 28 days=17.6

*Observed at Locarno. a= Passage of an average-sized group through the central meridian. b= Passage of a large group through the central meridian. c= New formation of a group developing into a middle-sized or large center of activity: E, on the eastern part of the sun's disk; W, on the western part; M, in the central-circle

d=Entrance of a large or average-sized center of activity on the east limb.

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